

SEQUENCE LISTING

<110> Braun et al.

<120> METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING
POLYMORPHIC GENETIC MARKERS

<130> 24736-2033

<140> Not Yet Assigned

<141> 2000-10-13

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<151> 2000-07-10

<150> 60/159,176

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<151> 2000-09-19

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ttcccagaaa	acctaccagg	gcagctacgg	tttccgtctg	ggcttcttgc	attctgggac	300
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 cctgaagact cgttctcaga tgccc 205

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 tccgggcccgg ttgctga atg agg gga gcc ggg ccc tcc ccg cgc cag tcc 170
 Met Arg Gly Ala Gly Pro Ser Pro Arg Gln Ser
 1 5 10

 ccc cgc acc ctc cgt ccc gac ccg ggc ccc gcc atg tcc ttc ttc cgg 218
 Pro Arg Thr Leu Arg Pro Asp Pro Gly Pro Ala Met Ser Phe Phe Arg
 15 20 25

 cgg aaa gtg aaa ggc aaa gaa caa gag aag acc tca gat gtg aag tcc 266
 Arg Lys Val Lys Gly Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser
 30 35 40

 att aaa gct tca ata tcc gta cat tcc cca caa aaa agc act aaa aat 314
 Ile Lys Ala Ser Ile Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn
 45 50 55

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 His Ala Leu Leu Glu Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala
 60 65 70 75

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 80 85 90

 aag aag cag cca agc cac atg gag gct gct cat ttt ggt gac ctg ggc 458
 Lys Lys Gln Pro Ser His Met Glu Ala Ala His Phe Gly Asp Leu Gly
 95 100 105

 aga tct tgt ctg gac tac cag act caa gag acc aaa tca agc ctt tct 506

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Lys	Thr	Leu	Glu	Gln	Val	Leu	His	Asp	Thr	Ile	Val	Leu	Pro	Tyr	Phe		
		125				130					135						
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Ile	Gln	Phe	Met	Glu	Leu	Arg	Arg	Met	Glu	His	Leu	Val	Lys	Phe	Trp		
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Leu	Glu	Ala	Glu	Ser	Phe	His	Ser	Thr	Thr	Trp	Ser	Arg	Ile	Arg	Ala		
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His	Ser	Leu	Asn	Thr	Met	Lys	Gln	Ser	Ser	Leu	Ala	Glu	Pro	Val	Ser		
			175					180					185				
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Pro	Ser	Lys	Lys	His	Glu	Thr	Thr	Ala	Ser	Phe	Leu	Thr	Asp	Ser	Leu		
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Asp	Lys	Arg	Leu	Glu	Asp		Gly	Ser	Ala	Gln	Leu	Phe	Met	Thr	His		
	205					210					215						
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Ser	Glu	Gly	Ile	Asp	Leu	Asn	Asn	Arg	Thr	Asn	Ser	Thr	Gln	Asn	His		
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ttg	ctg	ctt	tcc	cag	gaa	tgt	gac	agt	gcc	cat	tct	ctc	cgt	ctt	gaa	890	
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tcc	tct	aca	ctt	aca	gta	gcc	agt	aga	aat	agt	ccc	gct	tct	cca	cta	986	
Ser	Ser	Thr	Leu	Thr	Val	Ala	Ser	Arg	Asn	Ser	Pro	Ala	Ser	Pro	Leu		
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Lys	Glu	Leu	Ser	Gly	Lys	Leu	Met	Lys	Ser	Ile	Glu	Gln	Asp	Ala	Val		
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Asn	Thr	Phe	Thr	Lys	Tyr	Ile	Ser	Pro	Asp	Ala	Ala	Lys	Pro	Ile	Pro		
300					305					310					315		
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gat	gga	cag	gtg	gat	ccc	aac	tgt	ttc	gtt	ttg	gca	cag	tcc	ata	gtc	1178	
Asp	Gly	Gln	Val	Asp	Pro	Asn	Cys	Phe	Val	Leu	Ala	Gln	Ser	Ile	Val		
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Phe	Ser	Ala	Met	Glu	Gln	Glu	His	Phe	Ser	Glu	Phe	Leu	Arg	Ser	His		
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cat	ttc	tgt	aaa	tac	cag	att	gaa	gtg	ctg	acc	agt	gga	act	gtt	tac	1274	
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Tyr Asp Gln Pro Leu Glu Lys Ser Thr Lys Leu *	
655 660	

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gaatggggag acaatcctag gacttccacc ctaatgcagt tacctgtagg gcataattgg	2316
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35 40 45	
Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn His Ala Leu Leu Glu	
50 55 60	
Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala Ile Ser Ala Asn Met	
65 70 75 80	
Asp Ser Phe Ser Ser Ser Arg Thr Ala Thr Leu Lys Lys Gln Pro Ser	
85 90 95	
His Met Glu Ala His Phe Gly Asp Leu Gly Arg Ser Cys Leu Asp	
100 105 110	
Tyr Gln Thr Gln Glu Thr Lys Ser Ser Leu Ser Lys Thr Leu Glu Gln	
115 120 125	
Val Leu His Asp Thr Ile Val Leu Pro Tyr Phe Ile Gln Phe Met Glu	
130 135 140	
Leu Arg Arg Met Glu His Leu Val Lys Phe Trp Leu Glu Ala Glu Ser	
145 150 155 160	
Phe His Ser Thr Thr Trp Ser Arg Ile Arg Ala His Ser Leu Asn Thr	
165 170 175	
Met Lys Gln Ser Ser Leu Ala Glu Pro Val Ser Pro Ser Lys Lys His	
180 185 190	
Glu Thr Thr Ala Ser Phe Leu Thr Asp Ser Leu Asp Lys Arg Leu Glu	
195 200 205	
Asp Ser Gly Ser Ala Gln Leu Phe Met Thr His Ser Glu Gly Ile Asp	
210 215 220	
Leu Asn Asn Arg Thr Asn Ser Thr Gln Asn His Leu Leu Leu Ser Gln	
225 230 235 240	
Glu Cys Asp Ser Ala His Ser Leu Arg Leu Glu Met Ala Arg Ala Gly	
245 250 255	
Thr His Gln Val Ser Met Glu Thr Gln Glu Ser Ser Ser Thr Leu Thr	
260 265 270	
Val Ala Ser Arg Asn Ser Pro Ala Ser Pro Leu Lys Glu Leu Ser Gly	
275 280 285	
Lys Leu Met Lys Ser Ile Glu Gln Asp Ala Val Asn Thr Phe Thr Lys	
290 295 300	
Tyr Ile Ser Pro Asp Ala Ala Lys Pro Ile Pro Ile Thr Glu Ala Met	
305 310 315 320	
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325 330 335	
Pro Asn Cys Phe Val Leu Ala Gln Ser Ile Val Phe Ser Ala Met Glu	
340 345 350	
Gln Glu His Phe Ser Glu Phe Leu Arg Ser His His Phe Cys Lys Tyr	
355 360 365	
Gln Ile Glu Val Leu Thr Ser Gly Thr Val Tyr Leu Ala Asp Ile Leu	
370 375 380	
Phe Cys Glu Ser Ala Leu Phe Tyr Phe Ser Glu Tyr Met Glu Lys Glu	
385 390 395 400	
Asp Ala Val Asn Ile Leu Gln Phe Trp Leu Ala Ala Asp Asn Phe Gln	

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ctg gct gac att ctc ttc tgt gag tca gcc ctc ttt tat ttc tct gag Leu Ala Asp Ile Leu Phe Cys Glu Ser Ala Leu Phe Tyr Phe Ser Glu 380 385 390 395	1322
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g g c a t t g g c c	a g g a a g a a c t	c t a c a g t g t c	t t t a g g t a g c	t t c t g t c c a t	a a g g a t a a t g	144060
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 Thr Gln Met Ala Val Phe Gly Met Gly Cys Phe Trp Gly Ala Glu Arg
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 Lys Phe Trp Val Leu Lys Gly Val Tyr Ser Thr Gln Val Gly Phe Ala
 85 90 95
 Gly Gly Tyr Thr Ser Asn Pro Thr Tyr Lys Glu Val Cys Ser Glu Lys
 100 105 110
 Thr Gly His Ala Glu Val Val Arg Val Val Tyr Gln Pro Glu His Met
 115 120 125
 Ser Phe Glu Glu Leu Leu Lys Val Phe Trp Glu Asn His Asp Pro Thr
 130 135 140
 Gln Gly Met Arg Gln Gly Asn Asp His Gly Thr Gln Tyr Arg Ser Ala
 145 150 155 160
 Ile Tyr Pro Thr Ser Ala Lys Gln Met Glu Ala Ala Leu Ser Ser Lys
 165 170 175
 Glu Asn Tyr Gln Lys Val Leu Ser Glu His Gly Phe Gly Pro Ile Thr
 180 185 190
 Thr Asp Ile Arg Glu Gly Gln Thr Phe Tyr Tyr Ala Glu Asp Tyr His
 195 200 205
 Gln Gln Tyr Leu Ser Lys Asn Pro Asn Gly Tyr Cys Gly Leu Gly Gly
 210 215 220
 Thr Gly Val Ser Cys Pro Val Gly Ile Lys Lys
 225 230 235

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 <309> 1999-11-29

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 gagaaagtcc cttatgtatg tctagatttg gttaaagcgaa ggatttcagc gaatgagtca 180
 ctgaggctat acacgtttgc aaattgtaag gcaactggcg gcagagagca cagataaagg 240
 acttctgggg tcccccatcc tgtccagcaa cctcccagct cacaccttag cttctaccaa 300
 gaaggggtgaa cacagcatcc ctgctatctt cactcagacc ccagaaaacc cagggaaacc 360
 cgacagctcc actcccacca taacttatta ggagataagt cacattttat caacttgcca 420
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 g 481

<210> 40
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<400> 40

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gcattagaat	tcatcaagcg	gactcacatc	ttttctctgc	acagagaggg	ctgaaaaggg	120
agagaaagcc	ccttatgtat	gtctagattt	ggtaaagcga	aggatttcag	cgaatgagtc	180
actgaggcta	tacacgtttg	caaattgtaa	ggcactggcg	ggcagagagc	acagataaag	240
gacttttggg	gggtcccccat	tctgtccag	caacctccca	gctcacacct	tagcttctac	300
caagaagggg	tgaacacagc	atccctgcta	tcttcaactca	gacccccaga	agacacagga	360
aaccgcacag	ctccactccc	accataactt				390

<210> 41
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<220>
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gtccaatata	tgcaaacagt	tg
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<210> 43
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<400> 43		
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<210> 44
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 <210> 47
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 <400> 47
 agcggataac aatttcacac agg 23

 <210> 48
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 <400> 48
 ctggcgccac gtggtcaa 18

 <210> 49
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 <400> 49
 tttctctgca cagagagggc 20

 <210> 50
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 <210> 51
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<211> 20
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 tcccaaagtg ctggaattac 20

 <210> 54
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 <220>
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 <210> 55
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 <400> 55
 cccacagcag ttaatccttc 20

 <210> 56
 <211> 18
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 <400> 56
 gcgctcctgt cggtgcca 18

 <210> 57
 <211> 18
 <212> DNA
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 <400> 57
 gcctgactgg tggggccc 18

 <210> 58
 <211> 15
 <212> DNA
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 <220>
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 <400> 58
 catgcatgca cggtc 15

 <210> 59
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<212> DNA
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 <400> 59
 cagagagtac ccctcgaccg tgcatgcatg 30

 <210> 60
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 <400> 60
 catgcatgca cggtt 15

 <210> 61
 <211> 30
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 <400> 61
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 <210> 62
 <211> 14
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 <220>
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 <400> 62
 catgcatgca cggt 14

 <210> 63
 <211> 18
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 <400> 63
 gcctgactgg tggggccc 18

 <210> 64
 <211> 26
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 <220>
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 <400> 64
 gtgctgcagg tgtaaacttg taccag 26

 <210> 65
 <211> 28
 <212> DNA

<213> Artificial Sequence
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 <223> Oligonucleotide primer
 <400> 65
 cacggatccg gtagcagcgg tagagttg 28
 <210> 66
 <211> 19
 <212> DNA
 <213> Artificial Sequence
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 <223> Oligonucleotide primer
 <400> 66
 actgggcatg tggagacag 19
 <210> 67
 <211> 18
 <212> DNA
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 <223> Oligonucleotide primer
 <400> 67
 gcactttcctt gccatgag 18
 <210> 68
 <211> 14
 <212> DNA
 <213> Artificial Sequence
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 <223> Oligonucleotide primer
 <400> 68
 tcagtcacga cggt 14
 <210> 69
 <211> 14
 <212> DNA
 <213> Artificial Sequence
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 <223> Oligonucleotide primer
 <400> 69
 cggataacaa tttc 14
 <210> 70
 <211> 37
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 <400> 70
 caatttcacgc gctggatgca atctgggcta tgagatc 37
 <210> 71
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
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 <400> 71
 caatttcaca cagcggatgc ttcttttggc tctgact 37

 <210> 72
 <211> 40
 <212> DNA
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 <400> 72
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 <210> 73
 <211> 37
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 <220>
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 <400> 73
 cggataacaa tttcggatgc actgggagca ttgaggc 37

 <210> 74
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 <212> DNA
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 <220>
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 <400> 74
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 <210> 75
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 <400> 76
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 <210> 77
 <211> 32
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 <220>

<223> Oligonucleotide primer
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 <211> 38
 <212> DNA
 <213> Artificial Sequence
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 <400> 78
 tcagtcacga cggttgatgc ccacatgcca cccactac 38
 <210> 79
 <211> 35
 <212> DNA
 <213> Artificial Sequence
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 <223> Oligonucleotide primer
 <400> 79
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 <210> 80
 <211> 37
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 <400> 80
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 <210> 81
 <211> 22
 <212> DNA
 <213> Artificial Sequence
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 <223> Oligonucleotide primer
 <400> 81
 gctcatacct tgcaggatga cg 22
 <210> 82
 <211> 36
 <212> DNA
 <213> Artificial Sequence
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 <223> Oligonucleotide primer
 <400> 82
 tcagtcacga cggttgatga ccagctgttc gtgttc 36
 <210> 83
 <211> 34
 <212> DNA
 <213> Artificial Sequence
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<400> 83
 tacatggagt tcgggggatgc acacggcgac tctc 34

 <210> 84
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide primer

 <400> 84
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 <210> 85
 <211> 29
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 <213> Artificial Sequence

 <220>
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 <400> 85
 gaggggctga tccaggatgg gtgctccac 29

 <210> 86
 <211> 30
 <212> DNA
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 <220>
 <223> Oligonucleotide primer

 <400> 86
 tgaagcactt gaaggatgag ggtgtctgcg 30

 <210> 87
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide primer

 <400> 87
 cggataacaa ttctggatgc tgcgtgatga tgaaatcg 38

 <210> 88
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide primer

 <400> 88
 gatgaagctc ccaggatgcc agaggc 26

 <210> 89
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide primer

 <400> 89

gccgccggtg taggatgctg ctggtgc 27

<210> 90
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 90
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<210> 91
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Biotinylatd primer

<400> 91
 tgcttatccc tgtagctacc ctgtcttggc cttgcagatc caa 43

<210> 92
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide primer

<400> 92
 agcggataac aatttcacac aggccatcac accgcggtac tg 42

<210> 93
 <211> 44
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide primer

<400> 93
 cccagtcacg acgttgtaaa acgtcttggc cttgcagatc caag 44

<210> 94
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide primer

<400> 94
 agcggataac aatttcacac aggccatcac accgcggtac tg 42

<210> 95
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide primer

<400> 95
 ctccagctgg gcaggagtgc 20

<210> 96
 <211> 17
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide primer

 <400> 96
 cacttcagtc gctccct 17

 <210> 97
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Biotinylated primer

 <400> 97
 cccagtcacg acgttgtaaa acg 23

 <210> 98
 <211> 100
 <212> DNA
 <213> Homo sapien

 <400> 98
 cctttgagaa agggctctgc ttgagttgta gaaagaaccg ctgcaacaat ctgggctatg 60
 agatcaataa agtcagagcc aaaagaagca gcaaaatgta 100

 <210> 99
 <211> 100
 <212> DNA
 <213> Homo sapien

 <400> 99
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 agatcagtaa agtcagagcc aaaagaagca gcaaaatgta 100

 <210> 100
 <211> 100
 <212> DNA
 <213> Homo sapien

 <400> 100
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 aatgctccca gtgctattca tgggcagctc tctgggctca 100

 <210> 101
 <211> 100
 <212> DNA
 <213> Homo sapien

 <400> 101
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 aatgctccca gtgctattca tgggcagctc tctgggctca 100

 <210> 102
 <211> 84
 <212> DNA
 <213> Homo sapien

 <400> 102
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 tttgtccttg aagtaacctt tcag 84

<210> 103
 <211> 84
 <212> DNA
 <213> Homo sapien

<400> 103
 taataggact acttctaatac tgtaagagca gatccctgga caggcaagga atacaggtat 60
 tttgtccttg aagtaacctt tcag 84

<210> 104
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 104
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 atgatcaccg ctgtgggcat ccctgaggtc atgtctcgta 100

<210> 105
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 105
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 atgatcaccg ctgtgggcat ccctgaggtc atgtctcgta 100

<210> 106
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 106
 agcaaggact cctgcaaggg ggacagtggg gggccacatg ccaccacta ccagggcacg 60
 tggtagctga cgggcatcgt cagctggggc cagggctgcg 100

<210> 107
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 107
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 tggtagctga cgggcatcgt cagctggggc cagggctgcg 100

<210> 108
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 108
 caataactct aatgcagcgg aagatgacct gcccacagtg gagcttcagg gcgtgggtgcc 60
 ccggggcgctc aacctgcaag gtatgagcat accccccttc 100

<210> 109
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 109
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 ccggggcgctc aacctgcaag gtatgagcat accccccttc 100

<210> 110
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 110
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<210> 111
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 111
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 gtgtggagcc ccgaactcca tgggtttcca gtagaatttc 100

<210> 112
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 112
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 caggcctgga tcagcccctc attgtgatct gggagccctc 100

<210> 113
 <211> 100
 <212> DNA
 <213> Homo sapien

<400> 113
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 caggcctgga tcagcccctc attgtgatct gggagccctc 100

<210> 114
 <211> 80
 <212> DNA
 <213> Homo sapien

<400> 114
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 ttgaggctga cacattcttc 80

<210> 115
 <211> 80
 <212> DNA
 <213> Homo sapien

<400> 115
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 ttgaggctga cacattcttc 80

<210> 116
 <211> 80
 <212> DNA
 <213> Homo sapien

<400> 116
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 tcctacaccg gcggccccctg 80

<210> 117
 <211> 80
 <212> DNA
 <213> Homo sapien

<400> 117
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 tcctacaccg gcggccccctg 80

<210> 118
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Hair pin structure

<400> 118
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48